

## UTILITY PATENT APPLICATION TRANSMITTAL

Assistant Commissioner for Patents  
Washington, D.C. 20231  
BOX PATENT APPLICATIONCustomer No.: 23696  
Attorney Docket No.: PA010486  
Date: January 8, 2002  
Express Mail Label No.: ET100742955US

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): Walton, et al.For: RESOURCE ALLOCATION FOR MIMO-OFDM COMMUNICATION SYSTEMS.

Enclosed are:

1. ☒ Patent application (88) total pages.
2. ☒ Drawings: ☒ Formal (13) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☒ Declaration/Power of Attorney: ☐ Signed ☒ Unsigned
4. ☐ This application claims priority from Application Serial No. , Filed , Status .
5. ☐ An Assignment ( ) pages and Recordation Form Cover Sheet.
6. ☐ A Preliminary Amendment ( ) pages.
7. ☒ Information Disclosure Statement (IDS):
  - a. ☒ PTO-1449
  - b. ☒ Copies of IDS Citations (number of citations: 1)
8. ☐ Other:

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	65 - 20	45	x \$18 =	\$810.00
Independent**	11 - 3	8	x \$84 =	\$672.00
Multiple Dependent Claim(s): <input type="checkbox"/> No <input type="checkbox"/> Yes			\$280	\$
APPLICATION FILING FEE			\$740	\$740.00
			TOTAL FEE	\$2222.00

\*If the number in column a is less than 20, enter 0 in column b.

\*\*If the number in column b is less than 3, enter 0 in column b.

8. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
9. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$2222.00. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
10. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: January 8, 2002Signature: Kent D. BakerKent D. Baker, Reg. No. 38,822  
(858) 658-1930QUALCOMM Incorporated  
Attn: Patent Department  
5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 651-1179  
Facsimile: (858) 658-2502

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of )  
Walton, et al. ) For: Resource Allocation for MIMO-  
Serial No. Unknown ) OFDM Communication Systems  
Filed: Herewith ) Group Art Unit: Unknown

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

Asst. Commissioner of Patents  
BOX PATENT APPLICATIONS  
Washington, D.C. 20231

Dear Sir:


"Express Mail" mailing label No. ET100742955US  
Date of Deposit JANUARY 8, 2002

I hereby certify that the following papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to the Asst. Commissioner of Patents, Box Patent Applications, Washington, D.C. 20231:

**PATENT APPLICATION IN 88 PAGES; TRANSMITTAL LETTER IN DUPLICATE; 13 SHEETS OF FORMAL DRAWINGS; UNSIGNED DECLARATION/POWER OF ATTORNEY; INFORMATION DISCLOSURE STATEMENT IN 2 PAGES; PTO-1449 IN 1 PAGE IN DUPLICATE WITH 1 REFERENCE; AND POSTCARD**

Kayla R. Seignious

(Name)

  
(Signature)

QUALCOMM Incorporated  
5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 845-3313/Facsimile: (858) 658-2502

20070106 010302 1004259